

IN THE CLAIMS

129. (Currently Amended) A handheld apparatus including:

 a hardware interface to be connected to a handheld computer processing device and to
 [[an]] at least one attachable sensor, the at least one attachable sensor to perform data
 acquisition when attached to the hardware interface and be programmable by the handheld
 computer device;

 a data module to interact with the sensor and with the handheld computer processing
 device; and

 a display module to display data collection results on a display of the handheld
 computer processing device.

130. (Canceled)

131. (Canceled)

132. (Canceled)

133. (Previously Presented) The apparatus of claim 129 further comprising a memory
 module to store data supplied by the at least one sensor.

134. (Currently Amended) The apparatus of claim 129 wherein the software data module
 further configured to calibrate the at least one sensor.

135. (Previously Presented) The apparatus of claim 129 further comprising an alert module to
 notify a user of the apparatus of an event based on data provided by the at least one sensor.

136. (Previously Presented) The apparatus of claim 129 further comprising a power source.

137. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is a
 sensor for assessing chemical composition of a liquid sample.

138. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is a sensor for monitoring athletic activity.

139. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is a sensor for detecting acceleration changes.

140. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is a sensor for detecting light.

141. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is a sensor for detecting temperature.

142. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is an analog sensor.

143. (Previously Presented) The apparatus of claim 129 wherein the at least one sensor is a digital sensor.

144. (Previously Presented) The apparatus of claim 129 wherein the data module includes an analog-to-digital converter.

145. (Previously Presented) The apparatus of claim 129 wherein the data module processes the data prior to display of the data collection results on the display.

146. (Currently Amended) A handheld apparatus comprising:

a handheld computer processing device;

an attachable sensor to perform data acquisition; and

an adjustable module connected to the handheld computer processing device and to the sensor, the adjustable module processing data received from the sensor and displaying the data on a display of the handheld computer processing device, the sensor to perform data acquisition when connected to the adjustable module and be programmable by the handheld

computer device.

147. (Canceled)

148. (Canceled)

149. (Canceled)

150. (Previously Presented) The apparatus of claim 146 wherein the sensor is an analog sensor.

151. (Previously Presented) The apparatus of claim 146 wherein the sensor is a digital sensor.

152.(Previously Presented) The apparatus of claim 146 wherein the adjustable module includes an analog-to-digital converter.

153. (Previously Presented) The apparatus of claim 146 wherein the adjustable module further calibrates the sensor.

154. (Previously Presented) The apparatus of claim 146 wherein the adjustable module further generates graphical representation of the data received from the sensor.

155. (Previously Presented) The apparatus of claim 146 wherein the adjustable module further directs the sensor to change data collection features of the sensor based on at least one user instruction.

156. (Previously Presented) The apparatus of claim 146 wherein the adjustable module further alerts a user of the apparatus of an event based on data received from the sensor.

157. (Currently Amended) The apparatus of claim 146 wherein the sensor is a sensor

selected from a group including a temperature sensor, an acceleration sensor, a radiation sensor, a chemical sensor, a biological sensor, a weight sensor, a bar code sensor, an inventory tag sensor, a motion sensor, an infrared sensor, a pH level sensor, a heart monitor sensor.

158. (Currently Amended) A method comprising:

receiving data from an attachable sensor connected to an attachable device, the attachable sensor performing data acquisition when connected to the attachable device, wherein the attachable device is connected to a handheld computer processing device, and the attachable sensor is programmable by the handheld computer device;

processing the data at the attachable device; and

providing results of the processing to the handheld computer processing device for display.

159.(Previously Presented) The method of claim 158 wherein the processing the data includes generating graphical representation of the data.

160. (Previously Presented) The method of claim 158 wherein the processing the data includes converting the data into digital form.

161. (Previously Presented) The method of claim 158 wherein the processing the data includes determining whether an event occurs.

162.(Currently Amended) The method of claim 161 further comprising generating an alert signal to display at the handheld computer processing device if the event occurs.

163.(Previously Presented) The method of claim 158 further comprising calibrating the sensor based on at least one instruction of a user.

164.(Previously Presented) The method of claim 158 further comprising annotating the data based on at least one instruction of a user.

165. (Previously Presented) The method of claims 158 further comprising changing options of the sensor based on at least one instruction of the user.

166. (Currently Amended) The method of claim 165 wherein the options include sampling rates.

167. (Currently Amended) The method of claim 165 wherein the options include a scale of measurement.

168. (Currently Amended) The method of claim 165 wherein the options include measurement units.

169. (Previously Presented) The method of claim 158 further comprising changing display of the data based on user actions.

170. (Currently Amended) The method of claim 169 wherein the user actions are provided via a set of controls of the handheld computer processing device.

171. (Currently Amended) An apparatus comprising:

means for receiving data from [[an]] at least one attachable sensor connected to an attachable device, the attachable sensor performing data acquisition when connected to the attachable device, wherein the attachable device is connected to a handheld computer processing device, and the attachable sensor is programmable by the handheld computer device;

means for processing the data at the attachable device; and

means for providing results of the processing to the handheld computer processing device for display.